

## CERTIFICATE OF MAILING

I hereby certify that this paper and every paper referred to therein as being enclosed is being deposited with the U.S. Postal Service as first class mail in an envelope addressed to: Commissioner of Patents, P.O. Box 1450, Alexandria, VA 22313-1450, on the date below

DATE: 5/2/05

Grenda Matrozi

Attorney Docket No. 100716-58

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

APPLICANT : Ferdi SCHUTH, et al.  
SERIAL NO. : 10,517,683  
CUSTOMER NO. : 27384  
FILED : December 10, 2004  
FOR : THERMALLY STABLE MATERIALS HAVING HIGH SPECIFIC SURFACES  
ART UNIT : To Be Assigned  
EXAMINER : To Be Assigned

Commissioner for Patents  
PO Box 1450  
Alexandria, VA 22313-1450

**SECOND INFORMATION DISCLOSURE STATEMENT**

SIR:

Pursuant to 37 CFR §§ 1.56, 1.97 and 1.98, Applicants respectfully request that the Examiner consider the references listed on the attached Form PTO-1449.

**I. Timeliness, Fees and Certifications in lieu of Fees**

☒ A. This information disclosure statement is being filed within three months of the filing date of the application, or within three months of entry into the national stage, or before the mailing of a first Office Action on the merits. Pursuant to 37 CFR § 1.97(b), consideration of this information disclosure statement does not require a fee or a statement under 37 CFR §

1.97(e). However, should the Assistant Commissioner determine that a fee is, in fact, due, the Assistant Commissioner is hereby authorized to charge the fee to Deposit Account No. 14-1263.

☐ B. This information disclosure statement is being filed after the period in A above, but before the mailing of either a final action or a notice of allowance. Pursuant to 37 CFR § 1.97(c), consideration of this information disclosure statement requires a fee or a statement under 37 CFR § 1.97(e):

☐ 1. The Assistant Commissioner is hereby authorized to charge the fee set forth in 37 CFR § 1.17(p) to Deposit Account No. 14-1263.

☐ 2. Applicants hereby state that each item of information contained in this information disclosure statement was cited in a communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of the information disclosure statement.

☐ 3. Applicants hereby state that no item of information contained in this information disclosure statement was cited in a communication from a foreign patent office in a counterpart foreign patent application, and, to the knowledge of the undersigned after making reasonable inquiry, no item of information contained in this information disclosure statement was known to any individual designated in 37 CFR § 1.56 more than three months prior to the filing of this information disclosure statement.

☐ C. This information disclosure statement is being filed after the period specified in B above, but on or before the payment of the issue fee. Pursuant to 37 CFR § 1.97(d), consideration of this information disclosure statement requires a petition, which Applicants hereby request, and payment of the petition fee, which is set forth in 37 CFR § 1.17(i), and which the Assistant Commissioner is hereby authorized to charge to Deposit Account No. 14-1263. Consideration of this information disclosure statement also requires a statement under 37 CFR § 1.97(e):

☐ 1. Applicants hereby state that each item of information contained in this information disclosure statement was cited in a communication from a foreign patent

office in a counterpart foreign application not more than three months prior to the filing of the information disclosure statement.

☐ 2. Applicants hereby state that no item of information contained in this information disclosure statement was cited in a communication from a foreign patent office in a counterpart foreign patent application, and, to the knowledge of the undersigned after making reasonable inquiry, no item of information contained in this information disclosure statement was known to any individual designated in 37 CFR § 1.56 more than three months prior to the filing of this information disclosure statement.

## **II. Copies of Listed References**

☒ A. Copies of all references listed on the attached Form PTO-1449 are being supplied. Copies of U.S. patents are not included pursuant to Pre-OG Notice dated July 11, 2003.

☐ B. Copies of all references listed on the attached Form PTO-1449 have already been supplied during the prosecution of prior application Serial No. \_\_\_\_, filed \_\_\_\_, from which the present application claims priority pursuant to 35 USC § 120. Therefore, pursuant to 37 CFR § 1.98(d), copies of the references listed on the attached Form PTO-1449 are not now being supplied.

☐ C. This application is a PCT national stage application, all references listed on the attached Form PTO-1449 were cited in the international search report, and PCT/DO/EO/903 indicates that both the international search report and the copies of the references listed on the attached Form PTO-1449 are in this national stage file. Therefore, copies of the references listed on the attached Form PTO-1449 are not now being supplied.

## **III. Concise Statement of Relevance**

☒ A. All references listed on the attached Form PTO-1449 are in the English language, and, therefore, a concise statement of relevance is not required.

☐ B. All references listed on the attached Form PTO-1449 are referred to in the specification and/or were cited in the international search report, and a copy of that search report,

which indicates the degree of relevance found by the Search Authority, is attached.

The Examiner will note that English language counterparts or Abstracts of non-English language references are also enclosed, as follows:

JP 62-265114 - Abstract

- ☐ C. All references listed on the attached Form PTO-1449 were cited in the search report issued by the \_\_\_\_\_ Patent Office, and an English-language version of that search report, which indicates the degree of relevance found by that Patent Office, is attached.
- ☐ D. This application is a PCT national stage application, all references listed on the attached Form PTO-1449 were cited in the international search report, and a copy of that search report, which indicates the degree of relevance found by the International Search Authority, is attached.
- ☐ E. All listed on the attached Form PTO 1449 were cited during the prosecution of the prior application indicated above under II.B.

**IV. Additional Information**

- ☐ A. In addition to the references listed on the attached Form PTO-1449, Applicants wish to bring to the attention of the Examiner the following abandoned or co-pending U.S. patent applications:

[Pursuant to 37 CFR § 1.98(a)(2)(iii), copies of these applications are not being submitted.]

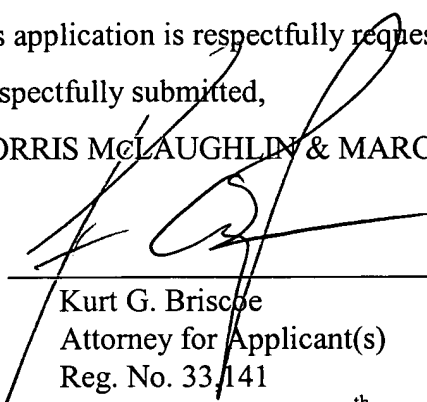
☐ B. In addition of the references listed on the attached Form PTO-1449, Applicants wish to bring to the attention of the Examiner the information provided on the attached sheet.

Consideration of the foregoing in relation to this application is respectfully requested.

Respectfully submitted,

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By

  
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Date: 4-29-05

**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT'S**  
(Form PTO-1449)

**Complete if Known**

Application Number	<b>10,517,683</b>
Filing Date:	<b>December 10, 2004</b>
First Named Inventor	<b>SCHUTH, et al.</b>
Art Unit	<b>Not yet assigned</b>
Examiner Name:	<b>Not yet assigned</b>
Attorney Docket Number:	<b>100716-58</b>

Sheet 1 of 2

**U.S. PATENT DOCUMENTS**

Examiner's Initials*	Cite No. <sup>1</sup>	Document Number Number-Kind Code <sup>2</sup>	Publication Date MM-DD-YYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
	A	US - 4,446,201	05-01-1984	LEE, et al.	

**FOREIGN PATENT DOCUMENTS**

Examiner's Initials*	Cite No.	Foreign Patent Document	Publication Date MM-DD-YYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T <sup>6</sup>
	B	JP-62-265114	05-07-1988	T. Ogushi		✓

**NON PATENT LITERATURE DOCUMENTS**

Examiner's Initials*	Cite No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>6</sup>
	C	M. DATURI, et al., "Reduction of High Surface Area CeO <sub>2</sub> - ZrO <sub>2</sub> Mixed Oxides", J. Phys. Chem. B, (2000) v. 104, pages 9186-9194.	
	D	M.F.L. JOHNSON, et al., "The Origin and Types of Pores in Some Alumina Catalysts", Journal of Catalysis, (1968), vol. 10, pages 342-354.	
	E	G.K. CHUAH, et al., "The Effect of Digestion on the Surface Area and Porosity of Alumina", Microporous and Mesoporous Materials, (2000), vol. 37, pages 345-353.	
	F	M.A. VALENZUELA, et al., "The Influence of the Preparation Method on the Surface Structure of ZnAl <sub>2</sub> O <sub>4</sub> , Applied Catalysis A, General, (1997), vol. 148, pages 315-324.	
	G	G. BUSCA, et al., "Preparation, Solid-State Characterization, and Surface Chemistry of High Surface Area Ni <sub>x</sub> Al <sub>2-2x</sub> O <sub>3-2x</sub> Mixed Oxides", Chem. Mater., (1992), vol. 4, pages 595-605.	
	H	A. ALEJANDRE, et al., "Preparation and Study of Cu-Al Mixed Oxides via Hydrotalcite-like Precursors", Chem. Mater., (1999), vol. 11, pages 939-948.	
	I	R. ROESKY, et al., "An Improved Synthesis Method for Indenes and Styrenes by Use of a ZnO/Al <sub>2</sub> O <sub>3</sub> Spinel Catalyst", Applied Catalysis A: General, (1999), vol. 176, pages 213-220.	
	J	A.C. PIERRE, et al. "Comparison of the Structure and Porous Texture of Alumina Gels Synthesized by Different Methods", Langmuir, (1998), vol. 14, pages 66-73.	

<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT'S</b> (Form PTO-1449)		<b>Complete if Known</b>	
		Application Number	10/517,683
		Filing Date:	December 10, 2004
		First Named Inventor	SCHUTH, et al.
		Art Unit	Not yet assigned
		Examiner Name:	Not yet assigned
Sheet 2	of 2	Attorney Docket Number:	100716-58
<b>NON PATENT LITERATURE DOCUMENTS</b>			
Examiner's Initials*	Cite No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>6</sup>
	K	E. ELAOULI, et al., "Influence of the Sol-Gel Processing Method on the Structure and the Porous Texture of Nondoped Aluminas", J. Catal., (1997), vol. 166, pages 340-346.	
	L	Y. MIZUSHIMA, et al., "Preparation of Heat-Resistant Alumina Aerogels", J. Mater. Res., Vol. 8, No. 11, Nov. 1993, pages 2993-2999.	
	M	K. MAEDA, et al., "Thermal Behaviour of Alumina from Aluminium Alkoxide Reacted with Complexing Agent", J. Chem Soc. Faraday Trans., (1992), vol. 88, pages 97-104)	
	N	G. BUSCA, et al., "Transition Metal Mixed Oxides as Combustion Catalysts: Preparation, Characterization and Activity Mechanisms", Catal. Today, (1997), vol. 33, pages 239-249.	
	O	E. ESCALONA, et al., "Synthesis of High Surface Area CoAl <sub>2</sub> O <sub>4</sub> and NiAl <sub>2</sub> O <sub>4</sub> , Spinel by an Alkoxide Route", Res. Chem. Intermed., (1999), vol. 25, No. 2, pages 187-194	
	P	M. OZAWA, et al., "Preparation of Zirconia Powder by the Pyrolysis of Active Carbon", J. Mater. Sci. Lett., (1990), vol. 9, pages 446-448.	
	Q	C. MADSEN, et al., "Nanosized Zeolite Crystals-Convenient Control of Crystal Size Distribution by Confined Space Synthesis", Chem. Commun., (1999), pages 673-674.	
	R	H. WAKAYAMA, et al., "Nanoporous Metal Oxides Synthesized by the Nanoscale Casting Process Using Supercritical Fluids", Chem. Matter, (2001), vol. 13, pages 2392-2396.	
	S	C. WEIDENTHALER, et al., "Thermal Stability and Thermal Transformations of Co <sup>2+</sup> - or Ni <sup>2+</sup> -Exchanged Zeolites A, X, and Y", Chem. Matter, (2000), vol. 12, pages 3811-3820.	
	T	C.O. AREAN, "Sol-Gel Method for Preparing High Surface Area CoAl <sub>2</sub> O <sub>4</sub> and Al <sub>2</sub> O <sub>3</sub> - CoAl <sub>2</sub> O <sub>4</sub> Spinel", Mater. Lett. (1999), vol. 39, pages 22-27.	
	U	E.S.J. LOX, et al., "Environmental Catalysis", Wiley-VCH, Weinheim 1997, Handbook of Heterogeneous Catalysis, vol. 4, pages 1559-1633.	
EXAMINER SIGNATURE:		DATE CONSIDERED:	
<p><b>*EXAMINER:</b> Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. <sup>1</sup>Applicant's unique citation designation number (optional). <sup>2</sup>see Kinds Codes of USPTO Patent Documents at <a href="http://www.uspto.gov">www.uspto.gov</a> or MPEP 901.04. <sup>3</sup>Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup>for Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup>Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. <sup>6</sup>Applicant is to place a check mark here if English language Translation is attached.</p> <p>The collection of information is required by 37 CFR 1.197 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.</p> <p>If you need assistance in completing this form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.</p>			